

Kindly cancel claims 1-19 and substitute new claims 20-40 as follows:

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~~20.~~ A method of generating replacement data for different types of communication transmitted over a communication network, the method comprising:

- detecting the type of communication;
- adjusting at least a first value in response to the detecting; and

fluctuating pseudo-randomly between the first value and a second value to generate an output value.

21. The method of claim 20 wherein the first value comprises a positive sign and a magnitude and wherein the second value comprise a negative sign and the magnitude and wherein the fluctuating comprises fluctuating pseudo-randomly between the positive sign and the negative sign.

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cont.*

22. A method of claim 21 wherein the fluctuating comprises:

- storing the magnitude in a multi-bit register;
- generating the positive sign and the negative sign using a linear feedback shift register; and

providing one of the positive sign and negative sign in conjunction with the magnitude as the output value.

23. The method of claim 20 wherein the types of communication comprises two or more of voice communication, facsimile communication and modem communication.

24. The method of claim 20 wherein the replacement data comprises white noise data.

25. The method of claim 20 wherein the communication network comprises a packet network.

26. The method of claim 25 further comprising:  
receiving data packets from the packet network;  
detecting lost data packets and producing in response a lost data output  
indicating when replacement data needs to be provided;  
removing overhead information from the data packets to produce output data;  
and  
inserting the output value in response to the lost data output.

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*cont.*  
27. Apparatus for generating replacement data for different types of  
communication transmitted over a communication network, the apparatus comprising:  
means for detecting the type of communication;  
means for adjusting at least a first value in response to the detected type of  
communication; and  
means for fluctuating pseudo-randomly between the first value and a second  
value to generate an output value.

28. The apparatus of claim 27 wherein the first value comprises a positive sign  
and a magnitude and wherein the second value comprise a negative sign and the  
magnitude and wherein the means for fluctuating comprises means for fluctuating  
pseudo-randomly between the positive sign and the negative sign.

29. The apparatus of claim 28 wherein the means for fluctuating comprises:  
multi-bit register means for storing the magnitude;  
linear feedback shift register means for generating the positive sign and negative  
sign; and

means for providing one of the positive sign and negative sign in conjunction with the magnitude as the output value.

30. The apparatus of claim 27 wherein the types of communication comprise two or more of voice communication, facsimile communication and modem communication.

31. The apparatus of claim 27 wherein the replacement data comprises white noise data.

32. The apparatus of claim 27 wherein the communication network comprises a packet network.

33. The apparatus of claim 32 further comprising:

means for receiving data packets from the packet network;

means for detecting lost data packets and producing in response a lost data output indicating when replacement data needs to be provided;

means for removing overhead information from the data packets to produce output data; and

means for inserting the output value in response to the lost data output.

~~34.~~ Apparatus for generating replacement data for different types of communication transmitted over a communication network, the apparatus comprising:

an echo canceller arranged to detect the type of communication;

a register control arranged to adjust at least a first value in response to the detecting; and

a plurality of registers arranged to fluctuate pseudo-randomly between the first value and a second value to generate an output value.

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35. The apparatus of claim 34 wherein the first value comprises a positive sign and a magnitude and wherein the second value comprises a negative sign and the magnitude and wherein the registers fluctuate pseudo-randomly between the positive sign and the negative sign.

36. The apparatus of claim 35 wherein the registers comprise a linear feedback shift register arranged to fluctuate pseudo-randomly between the positive sign and the negative sign and a second register arranged to store magnitude so that one of the positive sign and negative sign is provided in conjunction with the magnitude as the output value.

37. The apparatus of claim 34 wherein the echo canceller is arranged to detect two or more of voice communication, facsimile communication and modem communication.

38. The apparatus of claim 34 wherein the replacement data comprises white noise data.

39. The apparatus of claim 34 wherein the communication network comprises a packet network.

40. The apparatus of claim 39 further comprising:

a lost packet unit arranged to receiving data packets from the packet network, to detect lost data packets and to produce in response a lost data output indicating when replacement data needs to be provided;

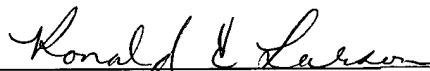
a data processing unit arranged to remove overhead information from the data packets to produce output data; and

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a data playout unit arranged to insert the output value in response to the lost data  
output.

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Respectfully submitted,



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